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PCT/US00/03453

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&lt;221&gt; UNSURE

&lt;222&gt; (162)

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Ser Val Gln Lys Pro Leu Leu Tyr Tyr Asp Asn Asn Val Ile Gly Thr
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Ile Asn Leu Leu Glu Val Met Ser Val His Gly Cys Lys Lys Leu Val
           50           55           60
Phe Ser Ser Ser Ala Ala Val Tyr Gly Ser Pro Lys Asn Ser Pro Cys
           65           70           75           80
Thr Glu Asn Phe Pro Leu Thr Pro Asn Asn Pro Tyr Gly Lys Thr Lys
           85           90           95
Leu Val Val Glu Asp Ile Cys Arg Asp Ile Tyr Arg Ser Asp Pro Glu
           100          105          110
Trp Lys Ile Ile Leu Leu Arg Tyr Phe Asn Pro Val Gly Ala His Pro
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Ser Gly Tyr Leu Gly Glu Asp Pro Arg Xaa Ile Pro Asn Asn Leu Met
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Pro Tyr Val Gln Gln Val Ala Val Gly Lys Xaa Pro Ala Leu Thr Val
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Leu Xaa Asn Asp Tyr Ala Thr Arg Asp
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 Leu Asp Asn Ala Ser Glu Leu Ala Ile Leu Arg Val Arg Glu Leu Ala  
 35 40 45  
 Gly His Asn Ala Asn Asn Leu Asp Phe Arg Lys Gly Asp Leu Arg Asp  
 50 55 60  
 Lys Gln Ala Leu Xaa Gln Ile Phe Ser Ser Gln Lys Val Glu Xaa Val  
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 Ser Ile Ile Asp Asn Phe Asp Asn Ser Val Met Glu Ala Met Asp Arg  
 35 40 45

Val Arg Gln Val Val Gly Pro Leu Leu Ser Gln Asn Leu Gln Phe Thr  
 50 55 60

Gln Gly Asp Leu Arg Asn Arg Asp Asp Leu Glu Lys Leu Phe Ser Lys  
 65 70 75 80

Thr Thr Phe Asp Ala Val Ile His Phe Ala Gly Leu Lys Ala Val Ala  
 85 90 95

Glu Ser Val Ala Lys Pro Arg Arg Tyr Phe Asp Phe Asn Leu Xaa Gly  
 100 105 110

Thr Xaa Asn Leu Tyr Glu Phe Met Xaa Lys Tyr Asn Cys Lys Lys Met  
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                   20                  25                  30  
 Asn Ser Val Pro Glu Ala Leu Asp Arg Val Arg His Ile Val Gly Pro  
                   35                  40                  45  
 Ala Leu Ser Ala Arg Leu Gln Phe Ile Phe Gly Asp Leu Thr Ile Lys  
           50                  55                  60  
 Asp Asp Leu Glu Lys Val Phe Ala Ala Lys Lys Tyr Asp Ala Val Ile  
           65                  70                  75                  80  
 His Phe Ala Gly Leu Lys Ala Val Ala Glu Ser Val Ala His Pro Glu  
                   85                  90                  95  
 Met Tyr Asn Arg Asn Asn Ile Val Gly Thr Val Asn Leu Tyr Asp Val  
                   100                  105                  110  
 Met Lys Lys His Gly Cys Asn Lys Leu Val Phe Ser Ser Ser Ala Thr  
           115                  120                  125  
 Val Tyr Gly Gln Pro Glu Lys Val Pro Cys Phe Glu Asp Ser Pro Leu  
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&lt;222&gt; (196)..(197)

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Ala His Pro Glu Met Tyr Tyr Glu Asn Asn Leu Ile Gly Thr Ile Asn  
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Leu Tyr Lys Ser Met Lys Glu His Gly Cys Lys Lys Leu Val Phe Ser  
 35 40 45

Ser Ser Ala Thr Val Tyr Gly Trp Pro Glu Val Ile Pro Cys Val Glu  
 50 55 60

Asp Ser Lys Leu Gln Ala Ala Asn Pro Tyr Gly Arg Thr Lys Leu Ile  
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Leu Glu Asp Met Ala Arg Asp Tyr His Arg Ala Asp Thr Glu Trp Ser  
 85 90 95

Ile Val Leu Leu Arg Tyr Phe Asn Pro Ile Gly Ala His Ser Ser Gly  
 100 105 110

Xaa Ile Xaa Arg Gly Pro Gln Gly Asp Thr Glu Gln Pro Ala Ala Leu  
 115 120 125

His Pro Ala Gly Xaa Arg Arg Xaa Ala Pro Arg Ala Gln Arg Leu Arg  
 130 135 140

Xaa Thr Ile Thr Pro Pro Gly Asp Gly Thr Ala Ile Arg Asp Tyr Ile  
 145 150 155 160

His Val Val Glu Leu Ala Asp Gly His Ile Ala Arg Ala Xaa Glu Leu  
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Xaa Asp Ser Pro Asp Ile Ser Cys Val Gly Tyr Asn Leu Gly Val Gln  
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Ser Arg Asn Pro Gln Met Tyr Tyr Glu Asp Asn Val Ala Gly Thr Met  
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Asn Leu Xaa Ser Ala Leu Thr Lys Tyr Gly Xaa Xaa Xaa Ile Val Phe  
           50                  55                  60

Ser Ser Xaa Ala Thr Val Xaa Gly Gln Pro Xaa Lys Thr Pro Cys Val  
       65                  70                  75                  80

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			20					25					30		
Ser	Ile	Ile	Asp	Asn	Phe	Asp	Asn	Ser	Val	Met	Glu	Ala	Val	Asp	Arg
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 Thr Thr Phe Asp Ala Val Ile His Phe Ala Gly Leu Lys Ala Val Ala  
 85 90 95  
 Glu Ser Val Ala Lys Pro Arg Arg Tyr Phe Asp Phe Asn Leu Val Gly  
 100 105 110  
 Thr Ile Asn Leu Tyr Glu Phe Met Ala Lys Tyr Asn Cys Lys Lys Met  
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 Val Phe Ser Ser Ser Ala Thr Val Tyr Gly Gln Pro Glu Lys Ile Pro  
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 Cys Glu Glu Asp Phe Lys Leu Gln Ala Met Asn Pro Tyr Gly Arg Thr  
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 Lys Leu Phe Leu Glu Glu Ile Ala Arg Asp Ile Gln Lys Ala Glu Pro  
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 Glu Trp Lys Ile Ile Leu Leu Arg Tyr Phe Asn Pro Val Gly Ala His  
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 Glu Ser Gly Lys Leu Gly Glu Asp Pro Lys Gly Ile Pro Asn Asn Leu  
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 Met Pro Tyr Ile Gln Gln Val Ala Val Gly Arg Leu Thr Glu Leu Asn  
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 Tyr Ile His Val Met Asp Leu Ala Asp Gly His Ile Ala Ala Leu Arg  
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 Lys Leu Phe Thr Thr Glu Asn Ile Gly Cys Thr Ala Tyr Asn Leu Gly  
 260 265 270  
 Thr Gly Arg Gly Thr Ser Val Leu Glu Met Val Thr Ala Phe Glu Lys  
 275 280 285  
 Ala Ser Gly Lys Lys Ile Pro Val Lys Leu Cys Pro Arg Arg Pro Gly  
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 Asp Ala Thr Glu Val Tyr Ala Ser Thr Glu Arg Ala Glu Lys Glu Leu  
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PCT/US00/03453

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 <211> 352  
 <212> PRT  
 <213> Triticum aestivum

<400> 16  
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 Asp Asn Phe His Asn Ser Val Pro Glu Ala Leu Asp Arg Val Arg His  
 35 40 45  
 Ile Val Gly Pro Ala Leu Ser Ala Arg Leu Gln Phe Ile Phe Gly Asp  
 50 55 60  
 Leu Thr Ile Lys Asp Asp Leu Glu Lys Val Phe Ala Ala Lys Lys Tyr  
 65 70 75 80  
 Asp Ala Val Ile His Phe Ala Gly Leu Lys Ala Val Ala Glu Ser Val  
 85 90 95

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Ala His Pro Glu Met Tyr Asn Arg Asn Asn Ile Val Gly Thr Val Asn  
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Leu Tyr Asp Val Met Lys Lys His Gly Cys Asn Lys Leu Val Phe Ser  
115 120 125

Ser Ser Ala Thr Val Tyr Gly Gln Pro Glu Lys Val Pro Cys Phe Glu  
130 135 140

Asp Ser Pro Leu Lys Ala Leu Asn Pro Tyr Gly Arg Thr Lys Leu Tyr  
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Leu Glu Glu Met Leu Arg Asp Tyr Gln His Ala Asn Pro Glu Trp Arg  
165 170 175

Thr Ile Leu Leu Arg Tyr Phe Asn Pro Ile Gly Ala His Glu Ser Gly  
180 185 190

Asp Ile Gly Glu Asp Pro Lys Gly Val Pro Asn Asn Leu Leu Pro Tyr  
195 200 205

Ile Gln Gln Val Ala Val Ala Arg Arg Pro Glu Leu Asn Val Tyr Gly  
210 215 220

His Asp Tyr Arg Thr Arg Asp Gly Thr Ala Val Arg Asp Tyr Ile His  
225 230 235 240

Val Val Asp Leu Ala Asp Gly His Ile Ala Ala Leu Glu Lys Leu Phe  
245 250 255

Ala Thr Pro Asp Ile Gly Cys Val Ala Tyr Asn Leu Gly Thr Gly Arg  
260 265 270

Gly Thr Thr Val Leu Glu Met Val Ser Ala Phe Glu Lys Ala Tyr Gly  
275 280 285

Lys Lys Ile Pro Val Lys Met Cys Pro Arg Arg Pro Gly Asp Ser Glu  
290 295 300

Gln Val Tyr Ala Ser Thr Ala Lys Ala Glu Glu Glu Leu Gly Trp Arg  
305 310 315 320

Ala Lys Tyr Gly Ile Glu Glu Met Cys Arg Asp Gln Trp Asn Trp Ala  
325 330 335

Lys Lys Asn Pro Tyr Gly Tyr Cys Gly Asn Ala Ala Glu Asn Lys Asp  
340 345 350

&lt;210&gt; 17

&lt;211&gt; 1393

&lt;212&gt; DNA

&lt;213&gt; Zea mays

&lt;400&gt; 17

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tactttatta tgacaacaac gtcattggca cgataaatct tctagaagtt atgtctgttc 180  
acggttgcaa gaagttgggtg ttctcatcat cagctgcagt ttatggatca cccaaaaact 240  
caccctgcac agaaaatttt cctcttactc caaacaatcc atatggcaaa acaaagctcg 300  
ttgttgaaga tatttgccgg gatattctacc gttcagatcc tgaatggaag atcattttac 360

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taacagtttt aggaaatgac tatgcaacaa gagatgggac tgggggtccga gattacatcc 540
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gcatagggtg tgaagcgtac aaccttgga cgggaagagg tacatctgtg ctggagattg 660
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<210> 18  
 <211> 353  
 <212> PRT  
 <213> Zea mays

<400> 18  
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 Gly Glu Ser Val Gln Lys Pro Leu Tyr Tyr Asp Asn Asn Val Ile  
 35 40 45  
 Gly Thr Ile Asn Leu Leu Glu Val Met Ser Val His Gly Cys Lys Lys  
 50 55 60  
 Leu Val Phe Ser Ser Ser Ala Ala Val Tyr Gly Ser Pro Lys Asn Ser  
 65 70 75 80  
 Pro Cys Thr Glu Asn Phe Pro Leu Thr Pro Asn Asn Pro Tyr Gly Lys  
 85 90 95  
 Thr Lys Leu Val Val Glu Asp Ile Cys Arg Asp Ile Tyr Arg Ser Asp  
 100 105 110  
 Pro Glu Trp Lys Ile Ile Leu Leu Arg Tyr Phe Asn Pro Val Gly Ala  
 115 120 125  
 His Pro Ser Gly Tyr Leu Gly Glu Asp Pro Arg Gly Ile Pro Asn Asn  
 130 135 140  
 Leu Met Pro Tyr Val Gln Gln Val Ala Val Gly Arg Arg Pro Ala Leu  
 145 150 155 160  
 Thr Val Leu Gly Asn Asp Tyr Ala Thr Arg Asp Gly Thr Gly Val Arg  
 165 170 175  
 Asp Tyr Ile His Val Val Asp Leu Ala Asp Gly His Ile Ala Ala Leu  
 180 185 190



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Gln Lys Leu Phe Glu Asn Ser Ser Ile Gly Cys Glu Ala Tyr Asn Leu  
 195 200 205

Gly Thr Gly Arg Gly Thr Ser Val Leu Glu Ile Val Lys Ala Phe Glu  
 210 215 220

Lys Ala Ser Gly Lys Lys Ile Pro Leu Ile Phe Gly Glu Arg Arg Pro  
 225 230 235 240

Gly Asp Ala Glu Ile Leu Phe Ser Glu Thr Thr Lys Ala Glu Arg Glu  
 245 250 255

Leu Asn Trp Lys Ala Lys Tyr Gly Ile Glu Glu Met Cys Arg Asp Gln  
 260 265 270

Trp Asn Trp Ala Ser Lys Asn Pro Tyr Gly Tyr Gly Ser Pro Asp Ser  
 275 280 285

Ile Lys Gln Asn Gly His Gln Thr Asn Gly Ser Ala Asp Ser Ser Lys  
 290 295 300

Gln Asn Gly His Arg Thr Asn Gly Ser Thr Asp Ser Pro Lys Arg Asn  
 305 310 315 320

Gly His His Ala Tyr Gly Ser Ala Asp Ser Pro Lys Arg Asn Gly His  
 325 330 335

Cys Val Phe Gly Ser Ser Asp Leu Lys Pro Asn Gly Asn Gly His Leu  
 340 345 350

Arg

<210> 19  
 <211> 1498  
 <212> DNA  
 <213> Oryza sativa

<400> 19

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cttctccaac	tcggcttccg	cgttgtcgtc	ctcgacaacc	tcgacaacgc	ctccgagctc	240
gccatcctcc	gcgtcaggga	actcgccgga	cacaacgcca	acaacctcga	cttccgcaag	300
gttgacctcc	gcgacaagca	agcgttggac	caaattcttct	cctctcaaag	gtttgaggct	360
gtcatccatt	ttgccgggct	gaaagctggt	ggcgagagcg	tcgagaagcc	cctgctttac	420
taagacaaca	acctcatcgg	caccatcact	ctcctgcagg	tcattggccgc	acatggctgc	480
accaagctgg	tggttctcatc	atccgcaact	gtctacgggt	ggcccaaggga	ggtgccctgc	540
actgaagaat	ccccactttg	tgcaatgaac	ccctacggga	gaacaaagct	ggtaatcgaa	600
gacatgtgcc	gggatctgca	tgccctcagac	ccaaactgga	agatcatact	gctccgatac	660
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 <211> 354  
 <212> PRT  
 <213> Oryza sativa

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 Val Val Val Leu Asp Asn Leu Asp Asn Ala Ser Glu Leu Ala Ile Leu  
 35 40 45  
 Arg Val Arg Glu Leu Ala Gly His Asn Ala Asn Asn Leu Asp Phe Arg  
 50 55 60  
 Lys Val Asp Leu Arg Asp Lys Gln Ala Leu Asp Gln Ile Phe Ser Ser  
 65 70 75 80  
 Gln Arg Phe Glu Ala Val Ile His Phe Ala Gly Leu Lys Ala Val Gly  
 85 90 95  
 Glu Ser Val Gln Lys Pro Leu Leu Tyr Tyr Asp Asn Asn Leu Ile Gly  
 100 105 110  
 Thr Ile Thr Leu Leu Gln Val Met Ala Ala His Gly Cys Thr Lys Leu  
 115 120 125  
 Val Phe Ser Ser Ser Ala Thr Val Tyr Gly Trp Pro Lys Glu Val Pro  
 130 135 140  
 Cys Thr Glu Glu Ser Pro Leu Cys Ala Met Asn Pro Tyr Gly Arg Thr  
 145 150 155 160  
 Lys Leu Val Ile Glu Asp Met Cys Arg Asp Leu His Ala Ser Asp Pro  
 165 170 175  
 Asn Trp Lys Ile Ile Leu Leu Arg Tyr Phe Asn Pro Val Gly Ala His  
 180 185 190  
 Pro Ser Gly Tyr Ile Gly Glu Asp Pro Cys Gly Ile Pro Asn Asn Leu  
 195 200 205  
 Met Pro Phe Val Gln Gln Val Ala Val Gly Arg Arg Pro Ala Leu Thr  
 210 215 220  
 Val Tyr Gly Thr Asp Tyr Asn Thr Lys Asp Gly Thr Gly Val Arg Asp  
 225 230 235 240  
 Tyr Ile His Val Val Asp Leu Ala Asp Gly His Ile Ala Ala Leu Arg  
 245 250 255

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Lys Leu Tyr Glu Asp Ser Asp Arg Ile Gly Cys Glu Val Tyr Asn Leu  
 260 265 270  
 Gly Thr Gly Lys Gly Thr Ser Val Leu Glu Met Val Ala Ala Phe Glu  
 275 280 285  
 Lys Ala Ser Gly Lys Lys Ile Pro Leu Val Phe Ala Gly Arg Arg Pro  
 290 295 300  
 Gly Asp Ala Glu Ile Val Tyr Ala Gln Thr Ala Lys Ala Glu Lys Glu  
 305 310 315 320  
 Leu Lys Trp Lys Ala Lys Tyr Gly Val Glu Glu Met Cys Arg Asp Leu  
 325 330 335  
 Trp Asn Trp Ala Ser Lys Asn Pro Tyr Gly Tyr Gly Ser Pro Asp Ser  
 340 345 350

Ser Asn

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 <211> 1532  
 <212> DNA  
 <213> Glycine max

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 cataaggtac ttatgcgcga taagactgta ctggtaaccg gcggagccgg ttacatcggc 240  
 agccacaccg ttcttcagct cttgctcgga ggtttcagag ccgtcgtcct cgacaacctc 300  
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<210> 22  
 <211> 349  
 <212> PRT  
 <213> Glycine max

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&lt;400&gt; 22

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 Leu Asp Asn Leu Glu Asn Ser Ser Glu Val Ala Ile His Arg Val Arg  
 35 40 45  
 Glu Leu Ala Gly Glu Phe Gly Asn Asn Leu Ser Phe His Lys Val Asp  
 50 55 60  
 Leu Arg Asp Arg Ala Ala Leu Asp Gln Ile Phe Ser Ser Thr Gln Phe  
 65 70 75 80  
 Asp Ala Val Ile His Phe Ala Gly Leu Lys Ala Val Gly Glu Ser Val  
 85 90 95  
 Gln Lys Pro Leu Leu Tyr Tyr Asn Asn Asn Leu Thr Gly Thr Ile Thr  
 100 105 110  
 Leu Leu Glu Val Met Ala Ala His Gly Cys Lys Lys Leu Val Phe Ser  
 115 120 125  
 Ser Ser Ala Thr Val Tyr Gly Trp Pro Lys Glu Val Pro Cys Thr Glu  
 130 135 140  
 Glu Phe Pro Leu Ser Ala Met Asn Pro Tyr Gly Arg Thr Lys Leu Ile  
 145 150 155 160  
 Ile Glu Glu Ile Cys Arg Asp Val His Cys Ala Glu Pro Asp Cys Lys  
 165 170 175  
 Ile Ile Leu Leu Arg Tyr Phe Asn Pro Val Gly Ala His Pro Ser Gly  
 180 185 190  
 Tyr Ile Gly Glu Asp Pro Arg Gly Ile Pro Asn Asn Leu Met Pro Phe  
 195 200 205  
 Val Gln Gln Val Ala Val Gly Arg Arg Pro Ala Leu Thr Val Phe Gly  
 210 215 220  
 Asn Asp Tyr Asn Thr Ser Asp Gly Thr Gly Val Arg Asp Tyr Ile His  
 225 230 235 240  
 Val Val Asp Leu Ala Asp Gly His Ile Ala Ala Leu Leu Lys Leu Asp  
 245 250 255  
 Glu Pro Asn Ile Gly Cys Glu Val Tyr Asn Leu Gly Thr Gly Lys Gly  
 260 265 270  
 Thr Ser Val Leu Glu Met Val Arg Ala Phe Glu Met Ala Ser Gly Lys  
 275 280 285  
 Lys Ile Pro Leu Val Met Ala Gly Arg Arg Pro Gly Asp Ala Glu Ile  
 290 295 300  
 Val Tyr Ala Ser Thr Lys Lys Ala Glu Arg Glu Leu Lys Trp Lys Ala  
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 ttccgcgtcc tcgtagtcga cagcctcgac aacgcctccg aggaggccat ccgccgcgtc 180  
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 aagaagtatc ttttttcgng cttattatta anaattaact atagtatatt attgagtcca 360  
 caaattaaat gttgattnnt cegtccgtcc cggccgtcgt gccagccanc canccgtntc 420  
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 cncctacgag 490

<210> 24  
 <211> 103  
 <212> PRT  
 <213> Triticum aestivum

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&lt;220&gt;

&lt;221&gt; UNSURE

&lt;222&gt; (90)

&lt;400&gt; 24

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 20 25 30

Glu Glu Ala Ile Arg Arg Val Arg Gln Leu Ala Asn Ala Pro Gln Xaa  
 35 40 45

Ser Leu Asp Phe Arg Lys Val Asp Leu Arg Asp Lys Xaa Ala Leu Asp  
 50 55 60

Gln Ile Phe Ser Ser Gln Arg Tyr Leu Xaa Leu Phe Ser Ala Lys Lys  
 65 70 75 80

Lys Tyr Leu Phe Ser Xaa Leu Leu Leu Xaa Ile Asn Tyr Ser Ile Leu  
 85 90 95

Leu Ser Pro Gln Ile Lys Cys  
 100

&lt;210&gt; 25

&lt;211&gt; 350

&lt;212&gt; PRT

&lt;213&gt; Pisum sativum

&lt;400&gt; 25

Met Val Ala Ser Ser Gln Lys Ile Leu Val Thr Gly Ser Ala Gly Phe  
 1 5 10 15

Ile Gly Thr His Thr Val Val Gln Leu Leu Asn Asn Gly Phe Asn Val  
 20 25 30

Ser Ile Ile Asp Asn Phe Asp Asn Ser Val Met Glu Ala Val Glu Arg  
 35 40 45

Val Arg Glu Val Val Gly Ser Asn Leu Ser Gln Asn Leu Glu Phe Thr  
 50 55 60

Leu Gly Asp Leu Arg Asn Lys Asp Asp Leu Glu Lys Leu Phe Ser Lys  
 65 70 75 80

Ser Lys Phe Asp Ala Val Ile His Phe Ala Gly Leu Lys Ala Val Gly  
 85 90 95

Glu Ser Val Glu Asn Pro Arg Arg Tyr Phe Asp Asn Asn Leu Val Gly  
 100 105 110

Thr Ile Asn Leu Tyr Glu Val Met Ala Lys His Asn Cys Lys Lys Met  
 115 120 125

Val Phe Ser Ser Ser Ala Thr Val Tyr Gly Gln Pro Glu Lys Ile Pro  
 130 135 140

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Cys Val Glu Asp Phe Lys Leu Gln Ala Met Asn Pro Tyr Gly Arg Thr  
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 Lys Leu Phe Leu Glu Glu Ile Ala Arg Asp Ile Gln Lys Ala Glu Pro  
 165 170 175  
 Glu Trp Arg Ile Val Leu Leu Arg Tyr Phe Asn Pro Val Gly Ala His  
 180 185 190  
 Glu Ser Gly Lys Leu Gly Glu Asp Pro Arg Gly Ile Pro Asn Asn Leu  
 195 200 205  
 Met Pro Tyr Ile Gln Gln Val Ala Val Gly Arg Leu Pro Glu Leu Asn  
 210 215 220  
 Val Tyr Gly His Asp Tyr Pro Thr Arg Asp Gly Ser Ala Ile Arg Asp  
 225 230 235 240  
 Tyr Ile His Val Met Asp Leu Ala Asp Gly His Ile Ala Ala Leu Arg  
 245 250 255  
 Lys Leu Phe Thr Ser Glu Asn Ile Gly Cys Thr Ala Tyr Asn Leu Gly  
 260 265 270  
 Thr Gly Arg Gly Ser Ser Val Leu Glu Met Val Ala Ala Phe Glu Lys  
 275 280 285  
 Ala Ser Gly Lys Lys Ile Ala Leu Lys Leu Cys Pro Arg Arg Pro Gly  
 290 295 300  
 Asp Ala Thr Glu Val Tyr Ala Ser Thr Ala Lys Ala Glu Lys Glu Leu  
 305 310 315 320  
 Gly Trp Lys Ala Lys Tyr Gly Val Glu Glu Met Cys Arg Asp Gln Trp  
 325 330 335  
 Asn Trp Ala Lys Asn Asn Pro Trp Gly Tyr Ser Gly Lys Pro  
 340 345 350  
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 <211> 350  
 <212> PRT  
 <213> Cyamopsis tetragonoloba  
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 Ser His Thr Val Leu Gln Leu Leu Leu Gly Gly Phe Lys Ala Val Val  
 20 25 30  
 Val Asp Asn Leu Asp Asn Ser Ser Glu Thr Ala Ile His Arg Val Lys  
 35 40 45  
 Glu Leu Ala Gly Lys Phe Ala Gly Asn Leu Ser Phe His Lys Leu Asp  
 50 55 60  
 Leu Arg Asp Arg Asp Ala Leu Glu Lys Ile Phe Ser Ser Thr Lys Phe  
 65 70 75 80



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Asp Ser Val Ile His Phe Ala Gly Leu Lys Ala Val Gly Glu Ser Val  
                             85                            90                            95  
 Gln Lys Pro Leu Leu Tyr Tyr Asp Asn Asn Leu Ile Gly Thr Ile Val  
                             100                            105                            110  
 Leu Phe Glu Val Met Ala Ala His Gly Cys Lys Lys Leu Val Phe Ser  
                             115                            120                            125  
 Ser Ser Ala Thr Val Tyr Gly Leu Pro Lys Glu Val Pro Cys Thr Glu  
                             130                            135                            140  
 Glu Phe Pro Leu Ser Ala Ala Asn Pro Tyr Gly Arg Thr Lys Leu Ile  
                             145                            150                            155                            160  
 Ile Glu Glu Ile Cys Arg Asp Ile Tyr Arg Ala Glu Gln Glu Trp Lys  
                             165                            170                            175  
 Ile Ile Leu Leu Arg Tyr Phe Asn Pro Val Gly Ala His Pro Ser Gly  
                             180                            185                            190  
 Tyr Ile Gly Glu Asp Pro Arg Gly Ile Pro Asn Asn Leu Met Pro Phe  
                             195                            200                            205  
 Val Gln Gln Val Ala Val Gly Arg Arg Pro Ala Leu Thr Val Phe Gly  
                             210                            215                            220  
 Asn Asp Tyr Thr Thr Ser Asp Gly Thr Gly Val Arg Asp Tyr Ile His  
                             225                            230                            235                            240  
 Val Val Asp Leu Ala Asp Gly His Ile Ala Ala Leu Arg Lys Leu Asn  
                             245                            250                            255  
 Asp Pro Lys Ile Gly Cys Glu Val Tyr Asn Leu Gly Thr Gly Lys Gly  
                             260                            265                            270  
 Thr Ser Val Leu Glu Met Val Lys Ala Phe Glu Gln Ala Ser Gly Lys  
                             275                            280                            285  
 Lys Ile Pro Leu Val Met Ala Gly Arg Arg Pro Gly Asp Ala Glu Val  
                             290                            295                            300  
 Val Tyr Ala Ser Thr Asn Lys Ala Glu Arg Glu Leu Asn Trp Lys Ala  
                             305                            310                            315                            320  
 Lys Tyr Gly Ile Asp Glu Met Cys Arg Asp Gln Trp Asn Trp Ala Ser  
                             325                            330                            335  
 Lys Asn Pro Tyr Gly Tyr Gly Gly Ser Glu Asp Ser Ser Asn  
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&lt;211&gt; 13

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence:oligonucleotide

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13

<210> 28  
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9